

**Amendment to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended) A ~~frame for a~~ tomography scanner system, comprising:

a gantry including an annular outer support and two, separate annular inner races supported for independent rotation within an the annular outer support, the annular support including an annular piece for defining in part two bearing chambers, one for each of the annular inner races, wherein the inner races are for respectively supporting x-ray CT scanner components and PET scanner components for rotation with the races about a shared rotation axis of the races within the gantry, and wherein the inner races are spaced along the rotation axis;

X-ray CT scanner components supported by one of the inner races, and

PET scanner components supported by the other the inner races.

Claim 2 (currently amended) A ~~frame system~~ according to claim 1, wherein:

the annular outer support ~~has~~ includes two radially inwardly facing, continuous ~~circumfereneial~~ circumferential bearing chambers;

the inner races each have a continuous circumferential bearing lip radially extending into the bearing chambers of the outer support, wherein each of the bearing lips defines two circumferential bearing runs within each of the bearing chambers; and

roller bearings are provided in the bearing runs.

Claim 3 (currently amended) A system ~~frame~~ according to claim 2, wherein the roller bearings comprise spherical ball bearings.

Claim 4 (currently amended) A ~~frame-system~~ according to claim 3, wherein bearing wires are provided and circumferentially extend within the bearing runs and guide the spherical ball bearings, which are suspended between the bearing wires.

Claim 5 (currently amended) A ~~frame-system~~ according to claim 4, wherein ball spacers are provided between the ball bearings.

Claim 6 (currently amended) A ~~frame-system~~ according to claim 5, wherein the bearings are preloaded.

Claim 7 (currently amended) A ~~frame-system~~ according to claim 6, wherein the annular outer support includes first, second and third annular pieces axially joined to define the bearing chambers.

Claim 8 (currently amended) A ~~frame-system~~ according to claim 7, wherein the first, second and third annular pieces are secured together with bolts to pre-load the bearings.

Claim 9 (currently amended) A ~~frame-system~~ according to claim 2, wherein the annular outer support includes grease fittings providing communication with the bearing chambers.

Claims 10-14 (canceled)

Claim 15 (currently amended) A ~~frame-system~~ according to claim 2, wherein the bearing lips are positioned equally between ends the inner races.

Claim 16 (currently amended) A ~~frame-system~~ according to claim 2, wherein the outer support and the inner races are made of the same material.

Claim 17 (currently amended) A ~~frame-system~~ according to claim 2, wherein portions of a radially outermost surface of the rotatable inner races are sheaved, and belts are received in the sheaved portions.

Claim 18 (currently amended) A ~~frame-system~~ according to claim 17, further comprising motors operatively connected to the belts for turning the belts and the inner races.

Claim 19 (currently amended) A ~~frame~~system according to claim 1, wherein roller bearings are provided between the rotatable inner races and the annular outer support.

Claim 20 (currently amended) A ~~frame~~system according to claim 1, wherein the inner races are equally spaced from a center of the outer support.